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CENTRAL INTELLIGENCE AGENCY

REPORT NO.

INFORMATION REPORT

CD NO.

COUNTRY USSR(Ukrainian SSR)

DATE DISTR. 21 February 1952

SUBJECT Open Hearth Plant of the Zaporozhstal
Metallurgical Plant at Zaporozhe
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NO. OF PAGES 2

PLACE
ACQUIRED

NO. OF ENCLS. 30
(LISTED BELOW)

DATE OF
INFO.

SUPPLEMENT TO
REPORT NO.

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NOT CIRCULATE

1. During the war the open-hearth plant, located between the blast furnaces and the two rolling mills (cold processing and hot processing), was destroyed, including six open-hearth furnaces which, according to Soviet statements, the Germans had put in operation. The open-hearth plant had been under reconstruction since 1944 and, during the last period of observation, was greatly modernized and enlarged (construction of a fully automatic slag removing installation). Six modernized open-hearth furnaces have been in operation since 1948 and two additional open-hearth furnaces operated after the summer of 1949. The ninth and tenth furnaces were to start operation in September 1949, and the eleventh and twelfth, of which only the foundations were completed, in early 1950. Thus, the completed open-hearth plant will have a total of twelve open-hearth furnaces placed in two groups of six each, with 20 meters between the two groups.
2. The open-hearth furnaces were fueled with gas which was piped from the coking plant (pipes were three meters in diameter). Alternately one of the open-hearth furnaces was always being overhauled, an operation which required five days.
3. The bunkers were also being enlarged. They were 70 meters from the open-hearth plant. Steel scrap

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and lime-stone arrived by rail (2 tracks), was loaded in special dump cars by automatic cranes and elevators, then shipped to the scales and from there to the open-hearth plant. Charging of the open-hearth furnaces was also a completely automatic process.

4. The three blast furnaces were assumed to produce different types of pig-iron as the pig-iron had to be mixed in a shop located between the blast furnaces and the open-hearth plant.
5. The so-called "30 tons department", south of the open-hearth plant, had two Siemens electric furnaces to produce special steels. For plant layout see Annex 1, for open-hearth plant see Annex 2.
also
6. Another PW who worked on the reconstruction of the open-hearth plant and whose information essentially corresponds with the above data, supplied the attached sketches (Annex 3), one of which shows that the open-hearth plant is 15 meters deeper than the bunkers. This PW gave the output in October 1949 as 160 tons steel per open-hearth furnace in one shift.

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[REDACTED] Comment:

This report gives valuable details on the constantly growing open-hearth plant. The production data as given in para 6 is of special interest. Both sources confirm the department for high quality steel, details of which were given in previous information*.

- 3 Annexes: Open-hearth Plant of the
 Zaporozhstal Metallurgical Plant in
 Zaporozhe.

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* [REDACTED]

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Legend of Annex 1:

Annex

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A Metallurgical Plant

- 1 Four large coke batteries and auxiliary installations
- 2 Four blast furnaces
- 3 Compressor station and emergency power plant
- 4 Special steel department with two electric Siemens furnaces
- 5 Mixing shop
- 6 Open-hearth plant
- 7 Lunkers
- 8 Transformer station
- 9 Mold breaking shop
- 10 Projected rolling mill
- 11 Mechanical workshops
- 12 Main administration
- 13 Workshop with unknown purpose
- 14 Hot rolling mill
- 15 Cold rolling mill

B Aluminum plant

- C "RMB" Repair Plant with foundry
- D Terminal stop of streetcar line

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Annex

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Legend to Annex 2:

- 1 Mixing shop
- 2 Special steel department
- 3 Administration of open-hearth plant
- 4 Mold breaking shop
- 5 About 10 railroad sidings
- 6 Open-hearth plant, about 300 meters long
 - a Two groups with each six open-hearth furnaces
 - b Furnaces No. 11 and No. 12 under construction
 - c 20-meter distance between the two groups of open-hearth furnaces
 - d Open area, about 70 meters wide
- 7 Bunker installation for scrap and lime, about 250 meters long
 - a Annex
- 8 Scale

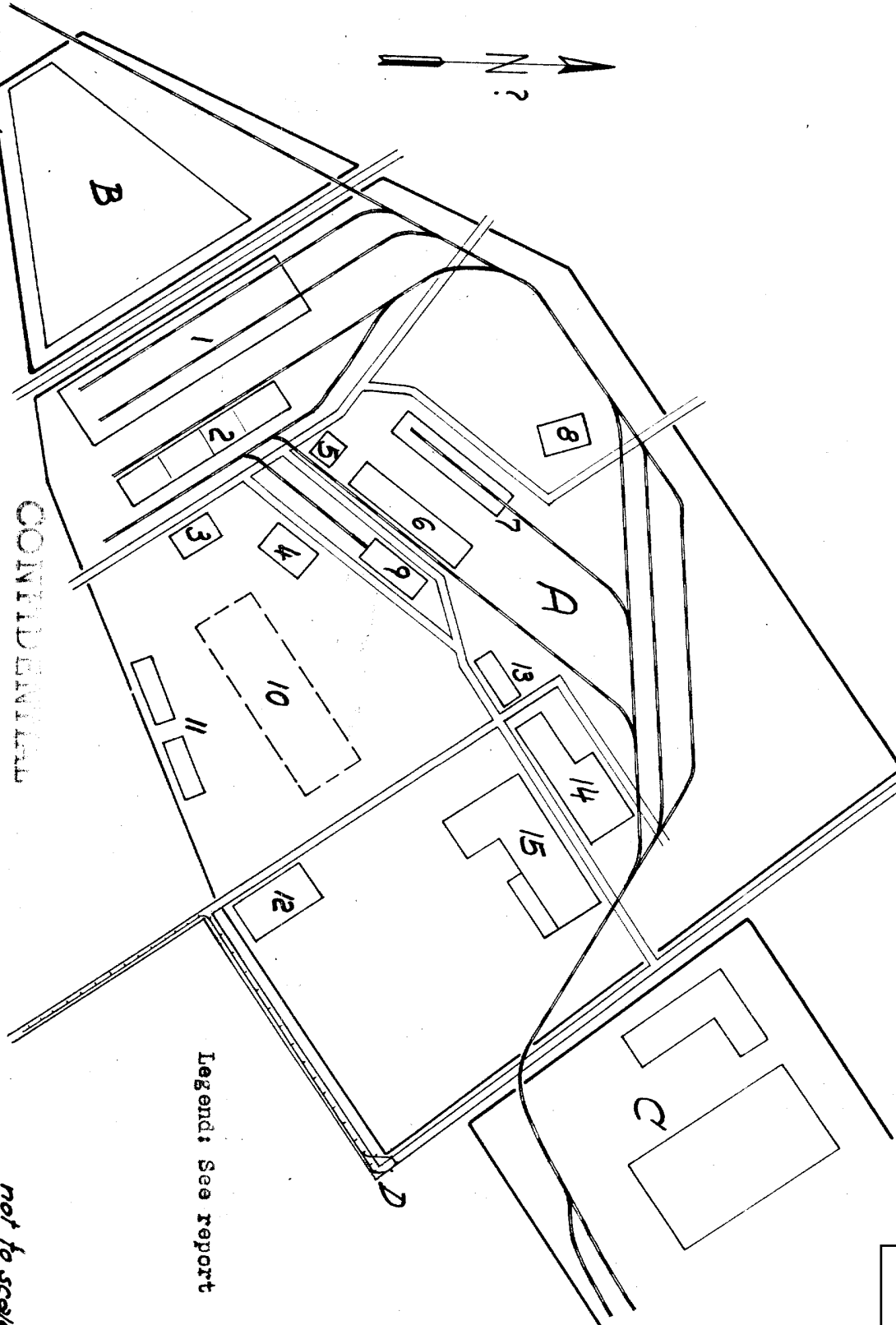
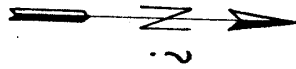
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Open-Hear ~~CONFIDENTIAL~~ S. OFFICIALS ONLY ~~CONFIDENTIAL~~ Plant in Zanzibar

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Amel



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not to scale

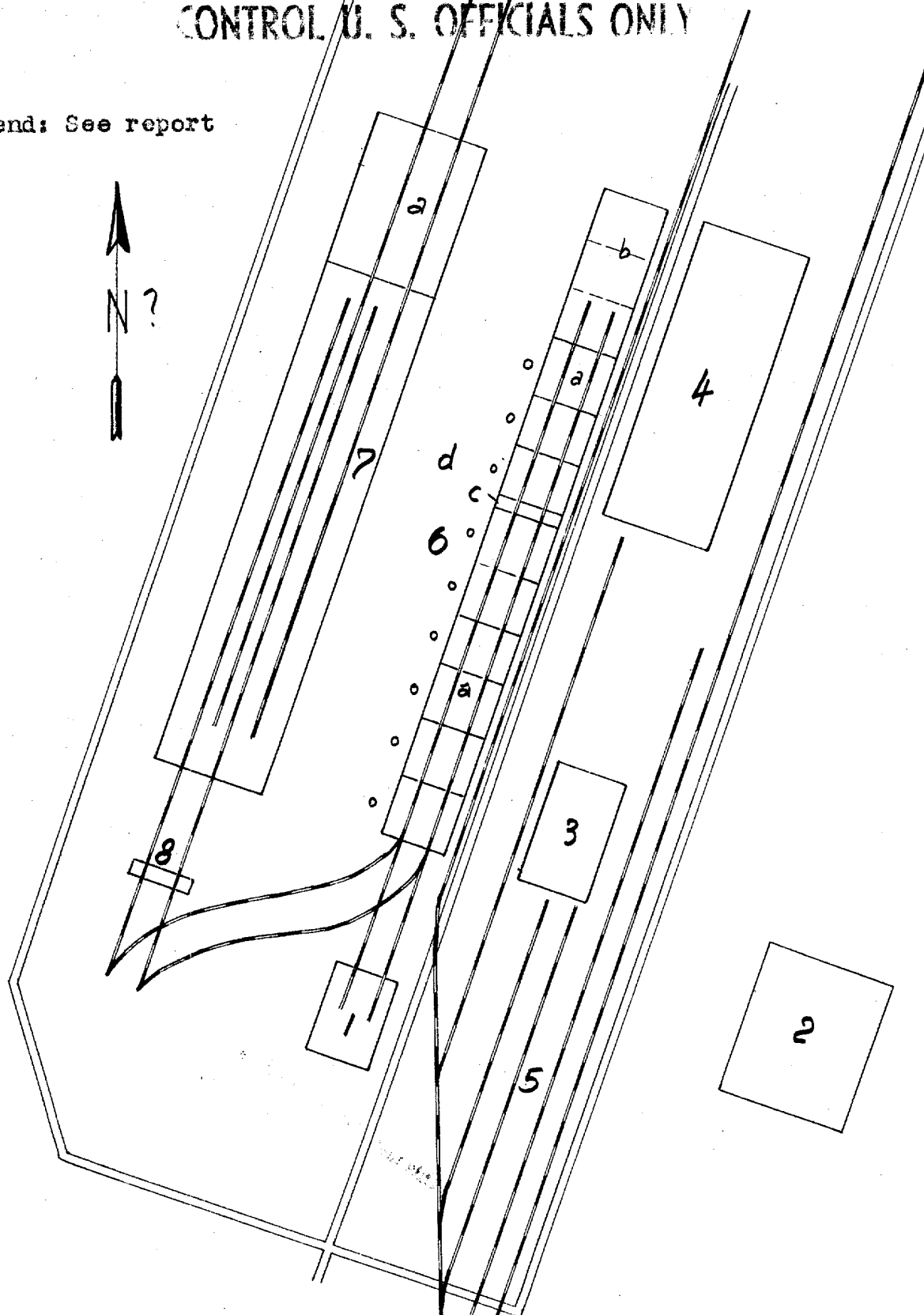
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Plant in Zaporozhne

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Legend: See report



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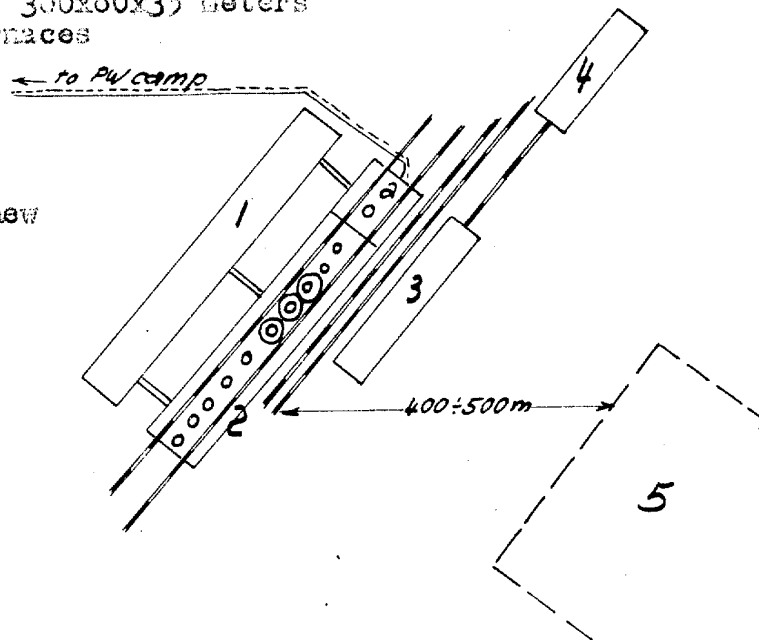
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in Zaporozhe

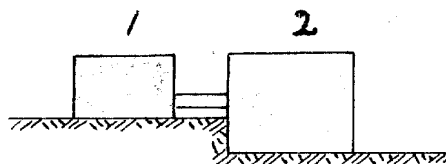
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Legend:

- 1 Dressing shop, 300x60x20 meters
- 2 Open-hearth plant, 300x80x35 meters
 - a Open-hearth furnaces No. 11 and 12 under construction
- 3 Cooling plant
- 4 Stores
- 5 Foundations of a new cold-processing rolling mill



Side View



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